

WISI LX 10 S BJ01

Optical Transmitter with high performance



Description

The S-type series transmitters are designed to be the most versatile model within the WISI LX10 series family. They can easily be configured to meet most HFC network solutions requiring link lengths in the range of 50 to 70 kilometers with one EDFA as well as links utilizing multiple EDFAs. The WISI LX10 series product line is a family of state-of-the-art high performance 1550 nm externally modulated CATV fiber optic transmitters optimized for varying network applications. Packaged in a convenient 1RU housing, this line of optical transmitters couples high optical output powers, up to 11.0 dBm, with low optical linewidth resulting in unmatched performance. The optical modulator, combined with proprietary predistortion circuitry, provides superior CTB and CSO performance with SBS suppression levels of greater than 20 dBm. Advanced features such as built in field adjustable SBS control and electronic dispersion compensation allows these transmitters to be quickly optimized in the field for any link or application without the need to procure specifically tuned transmitters. This affords the system designer a level of flexibility previously unknown in the CATV market place.

At a glance:

- Dual optical outputs
- Field adjustable SBS suppression
- External modulated transmitter
- Redundant & hot swappable power supplies
- Management via web interface and SNMP
- Field adjustable SBS suppression

Technical data

| | |
|---|--|
| Wave length | ITU ch. 27 |
| Specified link length | 65 km (in combination with additional EDFA) |
| Optical output power | 2x +10 dBm |
| SBS suppression | ≥ 16,0 dBm |
| Carrier to noise ratio | ≥ 53,0 dB |
| Signal performance (37 analog, 50 digital) CSO/CTB | ≥ 70,0 dBc |
| Input level | 78 / 87 dBμV (PAL-Level/SAT-IF) |
| Front panel RF gain/OMI adjustment range | +2/-4 dB (from nominal setting) |
| CATV frequency range | 47...1006 MHz |
| CATV flatness | ± 0.50 dB (47 MHz ... 550 MHz), ± 0.75 dB (47 MHz ... 1006 MHz) |
| CATV electrical return loss | ≥ 16 dB (47...1006 MHz) |
| CATV RF test point | -20 dB (± 1 dB) |
| General data | |
| Optical connectors | Rear: SC/APC |
| EMC | EN50083-2 |
| Safety standards | IEC 60950-1; IEC 60728-11; Laser IEC 60825-2 |
| Operating temperature range | 0...50 °C (ETSI EN 300 019-1-3 Class 3.2) |
| Supply voltage | 230 V AC, AC primary, AC secondary |
| Power consumption | ≤ 65 W |
| Dimensions (width x height x depth) | 483 x 45 x 381 mm |
| CNR test configuration | EDFA: 16 dBm, Link: 65 km, Received Power: 0 dBm |

Packaging data

| | |
|--------------------------------------|-----------------|
| Sales unit | pcs. |
| Dimensions (WxHxD) sales unit | mm |
| Packaging volume sales unit | dm ³ |
| Gross weight sales unit | kg |
| Shipping unit | pcs. |
| Dimensions (WxHxD) shipping unit | mm |
| Packaging volume shipping package | dm ³ |
| Gross weight shipping unit | kg |
| EAN | 4010056729592 |
| Article number | 72959 |
| Customs tariff number | 85176200 |

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Power supply:

- 1 – AC primary, AC secondary
- 2 – AC primary, DC secondary
- 3 – DC primary, DC secondary
- 5 – AC primary, no secondary
- 6 – DC primary, no secondary

Output:

- 0 – Rear SC/APC
- 2 – Rear E2000/APC
- 3 – Rear LC/APC
- 6 – Front SC/APC
- 7 – Front E2000/APC
- 8 – Front LC/APC

Wavelength:

- 0 – 1555 +/- 5 nm
- 1 – 1550 +/- 5 nm (standard)
- A – ITU ch. 18
- B – ITU ch. 19
- ...
- W – ITU ch. 40

Output power:

- 7 - 2x 7 dBm
- 8 - 2x 8 dBm
- B - 2x 10 dBm

Transmitter type:

- K
- S
- L
- P - Power supply